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## C-A OPERATIONS PROCEDURES MANUAL

### ATTACHMENT

#### 4.120.2.b 2 O’Clock (PEER 11) Gate Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.2		

#### Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
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Approved: \_\_\_\_\_ ***Signature on File*** \_\_\_\_\_  
 Collider-Accelerator Department Chairman Date

V. Castillo

C-A-OPM-ATT 4.120.2.b (Y)

1

Revision 00  
 November 29, 2004

#### 4.120.2.b 2 O’Clock (PEER 11) Gate Tests

### PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

Division B Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

#### Initial testing complete:

Test Team Leader’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

#### Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

#### Test results reviewed by:

Safety Section Head’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Safety Section Head’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

#### Test results accepted by Radiation Safety Committee:

RSC Member’s Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

RSC Member’s Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**1.1 CONDUCT** Visual check on **Peer 11** gates following Table-1, below

Gate	Micro Switch		Elec Wiring	Gate Box	Lights	Gate Functions			Verify all x's Corr.	Inspn O.K. Init.
	Align	Opern				Open	Self- Closing	Latch		
1GS1I									<input type="checkbox"/>	
1GS1O									<input type="checkbox"/>	
1EL1									<input type="checkbox"/>	
1GI1									<input type="checkbox"/>	
2MD1									<input type="checkbox"/>	
2GE1									<input type="checkbox"/>	
2MD2									<input type="checkbox"/>	
2GI1I									<input type="checkbox"/>	
2GI1O									<input type="checkbox"/>	
2GE2									<input type="checkbox"/>	
2MD3									<input type="checkbox"/>	
2EL1									<input type="checkbox"/>	
2ED1									<input type="checkbox"/>	
3GI1I									<input type="checkbox"/>	
3GI1O									<input type="checkbox"/>	

**Legend:** Tick = O.K.    x = Problem    N/A = Not Applicable

**Table 1: Summary of Physical Inspection of Peer 11 Gates**

## 1.2 Test INNER GATE at 1GS1:

- |                          |                |   |                |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | <b>VERIFY</b>  | Gate has been inspected   |                |
| <input type="checkbox"/> | <b>PLACE</b>   | <b>PEER 13</b> in <b>Restricted Access (Mode 8)</b>   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 13</b> is in <b>Restricted Access</b>   | <b>MODE 8</b>  |
| <input type="checkbox"/> | <b>PLACE</b>   | <b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Controlled Access</b>   | <b>MODE 16</b> |
| <input type="checkbox"/> | <b>VERIFY</b>  | The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on both sides of the gate are | <b>ON</b>      |
| <input type="checkbox"/> | <b>OPEN</b>    | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>HOLD</b>    | Both of the PEER 11 gate micro switches   | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>CLOSED</b>  |
| <input type="checkbox"/> | <b>RELEASE</b> | Div A PEER 11 micro switch  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div A</b>   | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>HOLD</b>    | Both of the PEER 11 gate micro switches   | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>CLOSED</b>  |
| <input type="checkbox"/> | <b>RELEASE</b> | Div B PEER 11 micro switch  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div B</b>   | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>CLOSE</b>   | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>CLOSED</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>1Z1</b> gate box Gate Reset light is   | <b>OFF</b>     |
| <input type="checkbox"/> | <b>RESET</b>   | The gate with #15 RC Sweep key at <b>1Z1</b> inner gate box   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>RESET</b>   |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>1Z1</b> gate box Gate Reset light is   | <b>ON</b>      |
| <input type="checkbox"/> | <b>OPEN</b>    | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>1Z1</b> gate box Gate Reset light is   | <b>OFF</b>     |
| <input type="checkbox"/> | <b>CLOSE</b>   | The gate  |                |
| <input type="checkbox"/> | <b>PLACE</b>   | <b>PEER 11</b> in <b>Controlled Access (MODE 17)</b>  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Controlled Access</b>   | <b>MODE 17</b> |
| <input type="checkbox"/> | <b>VERIFY</b>  | The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on both sides of the gate are | <b>ON</b>      |
| <input type="checkbox"/> | <b>PLACE</b>   | <b>PEER 11</b> in <b>Restricted Access (Mode 8)</b>   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Restricted Access</b>   | <b>MODE 8</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | LED message: <b>Access permitted</b> is   | <b>ON</b>      |
| <input type="checkbox"/> | <b>PLACE</b>   | <b>PEER 11</b> in <b>Safe Access (Mode 2)</b>   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Safe Access</b>   | <b>MODE 2</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on both sides of the gate are | <b>ON</b>      |
| <input type="checkbox"/> | <b>CHECK</b>   | for test acceptance of <b>INNER GATE</b> at <b>1GS1</b>   |                |

### 1.3 Test OUTER GATE at 1GS1:

	<b>PLACE</b>	<b>PEER 11 in Controlled Access (MODE 16)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11 is in Controlled Access</b>	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning lights on both sides of the gate indicate: <b>Call MCR for Crossover</b>	<b>ON</b>
	<b>OPEN</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
	<b>HOLD</b>	Both of the PEER 11 gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div A PEER 11 micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div A</b>	<b>OPEN</b>
	<b>HOLD</b>	Both of the PEER 11 gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div B PEER 11 micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div B</b>	<b>OPEN</b>
	<b>CLOSE</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>CHECK</b> for test acceptance of <b>OUTER GATE</b> at <b>1GS1</b>		

### 1.4 Test ESCAPE DOOR at 1EL1:

<input type="checkbox"/>	<b>VERIFY</b>	Gate has been inspected	
<input type="checkbox"/>	<b>VERIFY</b>	<b>The door cannot be opened from</b>	<b>OUTSIDE</b>
	<b>PLACE</b>	<b>PEER 11 in Controlled Access (MODE 16)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11 is in Controlled Access</b>	<b>MODE 16</b>
	<b>OPEN</b>	The door	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the door is	<b>OPEN</b>
	<b>SECURE</b>	The Security Bar micro switch	<b>MADE</b>
	<b>HOLD</b>	Both of the door micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div A door micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div A</b>	<b>OPEN</b>
	<b>HOLD</b>	Both of the door micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div B door micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div B</b>	<b>OPEN</b>
	<b>HOLD</b>	Both of the door micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the door is	<b>CLOSED</b>
	<b>RELEASE</b>	The Security Bar micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the door is	<b>OPEN</b>
	<b>CLOSE</b>	The door and latch the Security Bar	
<input type="checkbox"/>	<b>VERIFY</b>	The <b>1EL1</b> Door Reset light is	<b>OFF</b>
	<b>RESET</b>	The Door with #15 RC Sweep key at <b>1EL1</b> gate box	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the <b>1EL1</b> door is	<b>RESET</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>1EL1</b> Door Reset light is	<b>ON</b>
	<b>OPEN</b>	The door	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the door is	<b>OPEN</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>1EL1</b> gate box Gate Reset light is	<b>OFF</b>
	<b>CLOSE</b>	The door	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the door is	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>1EL1</b> gate box Gate Reset light is	<b>OFF</b>

☐ **CHECK** for test acceptance of **ESCAPE DOOR** at **1EL1**

## 1.5 Test of INNER GATE at 1GI1

<input type="checkbox"/>	<b>VERIFY</b>	INNER Gate at <b>1GI1</b> has been inspected	
<input type="checkbox"/>	<b>PLACE</b>	<b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on <b>1Z1</b> side of the gate are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>2Z1</b> gate box <b>Controlled Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>OPEN</b>	Gate <b>1GI1</b> with <b>Simultaneous Release</b> and <b>#14 CA Key</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Simultaneous Release Buzzer</b>	<b>SOUNDS</b>
<input type="checkbox"/>	<b>VERIFY</b>	Gate <b>1GI1</b> is	<b>OPEN</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
<input type="checkbox"/>	<b>SECURE</b>	The Electric Strike micro switch	<b>MADE</b>
<input type="checkbox"/>	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>RELEASE</b>	Div A micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div A</b>	<b>OPEN</b>
<input type="checkbox"/>	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>RELEASE</b>	Div B micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div B</b>	<b>OPEN</b>
<input type="checkbox"/>	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>RELEASE</b>	The Electric Strike micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
<input type="checkbox"/>	<b>CLOSE</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>2Z1</b> gate box Gate Reset light is	<b>OFF</b>
<input type="checkbox"/>	<b>RESET</b>	The gate with <b>#15 RC Sweep</b> key at <b>2Z1</b> inner gate box	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>RESET</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>2Z1</b> gate box Gate Reset light is	<b>ON</b>
<input type="checkbox"/>	<b>OPEN</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>2Z1</b> gate box Gate Reset light is	<b>OFF</b>
<input type="checkbox"/>	<b>CLOSE</b>	The gate	
<input type="checkbox"/>	<b>PLACE</b>	<b>PEER 11</b> in <b>Controlled Access (MODE 17)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Controlled Access</b>	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>2Z1</b> gate box <b>Controlled Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on <b>1Z1</b> side of the gate are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Attempt to open</b> gate <b>1GI1</b> from <b>2Z1</b> with the <b>#14 RC CA</b> key and <b>Simultaneous Release</b>	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>CLOSE</b>	Gate <b>1GI1</b>	
<input type="checkbox"/>	<b>PLACE</b>	<b>PEER 11</b> in <b>Restricted Access (Mode 8)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Restricted Access</b>	<b>MODE 8</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>2Z1</b> gate box <b>Restricted Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The LED message: <b>Access Permitted</b> on the <b>1Z1 side</b> is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>open</b> gate <b>1GI1</b> from <b>2Z1 side</b> with <b>S</b> key is	<b>SUCCESSFUL</b>

- |                          |               |   |                   |
|--------------------------|---------------|---|-------------------|
| <input type="checkbox"/> | <b>VERIFY</b> | Attempt to <b>open</b> Gate <b>1GI1</b> with <b>#14 RC CA</b> key is  | <b>SUCCESSFUL</b> |
| <input type="checkbox"/> | <b>VERIFY</b> | Attempt to open <b>1GI1</b> with <b>Blue card</b> is  | <b>SUCCESSFUL</b> |
| <input type="checkbox"/> | <b>VERIFY</b> | Attempt to open <b>1GI1</b> with <b>Expt. _____ card</b>  | <b>FAIL</b>       |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>During</b> attempt with <b>Expt. Card Reader light</b> is  | <b>RED</b>        |
|                          | <b>PLACE</b>  | <b>PEER 11</b> in <b>Safe Access (Mode 2)</b>   |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>PEER 11</b> is in <b>Safe Access</b>   | <b>MODE 2</b>     |
| <input type="checkbox"/> | <b>VERIFY</b> | The <b>2Z1</b> gate box <b>Controlled Access</b> light is   | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on <b>1Z1</b> side of the gate is | <b>ON</b>         |
| <input type="checkbox"/> | <b>VERIFY</b> | Attempt to open gate <b>1GI1</b> with <b>Simultaneous Release</b> and <b>S Key</b>                                | <b>FAIL</b>       |
|                          | <b>OPEN</b>   | Gate <b>1GI1</b> with <b>Simultaneous Release</b> and <b>#14 CA Key</b>   |                   |
| <input type="checkbox"/> | <b>VERIFY</b> | Gate <b>1GI1</b> is   | <b>OPEN</b>       |
|                          | <b>CLOSE</b>  | Gate <b>1GI1</b>  |                   |
| <input type="checkbox"/> | <b>CHECK</b>  | for test acceptance of <b>INNER GATE</b> at <b>1GI1</b>   |                   |

#### 1.6 Test OUTER GATE at 1GI1:

- |                          |                |  |                |
|--------------------------|----------------|--|----------------|
|                          | <b>PLACE</b>   | <b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Controlled Access</b>  | <b>MODE 16</b> |
| <input type="checkbox"/> | <b>VERIFY</b>  | The warning light on <b>1Z1</b> side of the gate indicate: <b>Call MCR for Crossover Amber</b> | <b>ON</b>      |
|                          | <b>OPEN</b>    | The gate   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is  | <b>OPEN</b>    |
|                          | <b>SECURE</b>  | The Electric Strike micro switch   | <b>MADE</b>    |
|                          | <b>HOLD</b>    | Both of the gate micro switches  | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is  | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div A micro switch   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div A</b>  | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the gate micro switches  | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is  | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div B micro switch   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div B</b>  | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the gate micro switches  | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is  | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | The Electric Strike micro switch   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is  | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>CHECK</b>   | for test acceptance of <b>OUTER GATE</b> at <b>1GI1</b>  |                |

### 1.7 Test of TRENCH GATE at 2MD1

<input type="checkbox"/>	<b>VERIFY</b>	Gate has been inspected	
	<b>PLACE</b>	<b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
	<b>OPEN</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
	<b>HOLD</b>	Both gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div A micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div A</b>	<b>OPEN</b>
	<b>HOLD</b>	Both gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div B micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div B</b>	<b>OPEN</b>
	<b>CLOSE</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	The gate box Gate Reset light is	<b>OFF</b>
	<b>RESET</b>	The gate with <b>#15 RC Sweep</b> key	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>RESET</b>
<input type="checkbox"/>	<b>VERIFY</b>	The gate box Gate Reset light is	<b>ON</b>
	<b>OPEN</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	The gate box Gate Reset light is	<b>OFF</b>
	<b>CLOSE</b>	The gate	

☐ **CHECK** for test acceptance of **TRENCH GATE** at **2MD1**

### 1.8 Test of ENTRY GATE at 2GE1

<input type="checkbox"/>	<b>VERIFY</b>	<b>INNER</b> Gate at <b>2GE1</b> has been inspected	
	<b>PLACE</b>	<b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Controlled Access</b> light is	<b>ON</b>
	<b>OPEN</b>	Gate <b>2GE1</b> with <b>Simultaneous Release</b> and <b>#14 CA Key</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Simultaneous Release <b>Buzzer</b>	<b>SOUNDS</b>
<input type="checkbox"/>	<b>VERIFY</b>	Gate <b>2GE1</b> is	<b>OPEN</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
	<b>SECURE</b>	The Electric Strike micro switch	<b>MADE</b>
	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div A micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div A</b>	<b>OPEN</b>
	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div B micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div B</b>	<b>OPEN</b>
	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	The Electric Strike micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
	<b>CLOSE</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
<input type="checkbox"/>	<b>VERIFY</b>	The gate box Gate Reset light is	<b>OFF</b>



	<b>PLACE</b>	<b>PEER 11 in Restricted Access (MODE 17)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11 is in Restricted Access</b>	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Restricted Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>open</b> gate <b>2GE1</b> with <b>S</b> key is	<b>SUCCESSFUL</b>
	<b>OPEN</b>	Gate <b>2GE1</b> with the <b>#14 RC CA</b> key	
<input type="checkbox"/>	<b>VERIFY</b>	Gate <b>2GE1</b> is	<b>OPEN</b>
	<b>CLOSE</b>	Gate <b>2GE1</b>	
	<b>PLACE</b>	<b>PEER 11 in Restricted Access (Mode 8)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11 is in Restricted Access</b>	<b>MODE 8</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Restricted Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>open</b> gate <b>2GE1</b> with <b>S</b> key is	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>open</b> Gate <b>2GE1</b> with <b>#14 RC CA</b> key is	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>2GE1</b> with <b>Blue card</b>	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>2GE1</b> with <b>Brahms Expt. Card</b> is	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open <b>2GE1</b> with <b>other Expt. _____ card</b>	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>During</b> attempt with <b>Expt. Card Reader light</b> is	<b>Red</b>
	<b>PLACE</b>	<b>PEER 11 in Safe Access (Mode 2)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11 is in Safe Access</b>	<b>MODE 2</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Controlled Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate <b>2GE1</b> with <b>Simultaneous Release and S Key</b>	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open gate <b>2GE1</b> with <b>Simultaneous Release and # 14 RC CA key</b>	<b>SUCCESSFUL</b>
	<b>CLOSE</b>	Gate <b>2GE1</b>	
<input type="checkbox"/>	<b>CHECK</b> for test acceptance of <b>ENTRY GATE</b> at <b>2GE1</b>		

#### 1.9 Test of TRENCH GATE at 2MD2

<input type="checkbox"/>	<b>VERIFY</b>	Gate has been inspected	
	<b>PLACE</b>	<b>PEER 11 in Controlled Access (MODE 16)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11 is in Controlled Access</b>	<b>MODE 16</b>
	<b>OPEN</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
	<b>HOLD</b>	Both gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div A micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div A</b>	<b>OPEN</b>
	<b>HOLD</b>	Both gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div B micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div B</b>	<b>OPEN</b>
	<b>CLOSE</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>

- |                          |               |                                     |               |
|--------------------------|---------------|-------------------------------------|---------------|
| <input type="checkbox"/> | <b>VERIFY</b> | The gate box Gate Reset light is    | <b>OFF</b>    |
|                          | <b>RESET</b>  | The gate with #15 RC Sweep key      |               |
| <input type="checkbox"/> | <b>VERIFY</b> | Operator Interface sees the gate is | <b>RESET</b>  |
| <input type="checkbox"/> | <b>VERIFY</b> | The gate box Gate Reset light is    | <b>ON</b>     |
|                          | <b>OPEN</b>   | The gate                            |               |
| <input type="checkbox"/> | <b>VERIFY</b> | Operator Interface sees the gate is | <b>CLOSED</b> |
| <input type="checkbox"/> | <b>VERIFY</b> | The gate box Gate Reset light is    | <b>OFF</b>    |
|                          | <b>CLOSE</b>  | The gate                            |               |
- ☐ **CHECK** for test acceptance of **TRENCH GATE** at 2MD2

#### 1.10 Test of INNER GATE at 2GI1

- |                          |                |   |                |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>INNER</b> Gate at <b>2GI1</b> has been inspected   |                |
|                          | <b>PLACE</b>   | <b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Controlled Access</b>   | <b>MODE 16</b> |
| <input type="checkbox"/> | <b>VERIFY</b>  | The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on both sides of the gate are | <b>ON</b>      |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2Z1</b> gate box <b>Controlled Access</b> light is   | <b>ON</b>      |
|                          | <b>OPEN</b>    | Gate <b>2GI1</b> with <b>Simultaneous Release</b> and <b>#15 CA Key</b>                                       |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>Simultaneous Release Buzzer</b>  | <b>SOUNDS</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | Gate <b>2GI1</b> is   | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>OPEN</b>    |
|                          | <b>SECURE</b>  | The Electric Strike micro switch  | <b>MADE</b>    |
|                          | <b>HOLD</b>    | Both of the gate micro switches   | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div A micro switch  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div A</b>   | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the gate micro switches   | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div B micro switch  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div B</b>   | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the gate micro switches   | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | The Electric Strike micro switch  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>OPEN</b>    |
|                          | <b>CLOSE</b>   | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>CLOSED</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2Z1</b> gate box Gate Reset light is   | <b>OFF</b>     |
|                          | <b>RESET</b>   | The gate with #15 RC Sweep key at <b>2Z1</b> inner gate box   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>RESET</b>   |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2Z1</b> gate box Gate Reset light is   | <b>ON</b>      |
|                          | <b>OPEN</b>    | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is   | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2Z1</b> gate box Gate Reset light is   | <b>OFF</b>     |
|                          | <b>CLOSE</b>   | The gate  |                |
|                          | <b>PLACE</b>   | <b>PEER 11</b> in <b>Controlled Access (MODE 17)</b>  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Controlled Access</b>   | <b>MODE 17</b> |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2Z1</b> gate box <b>Controlled Access</b> light is   | <b>ON</b>      |
| <input type="checkbox"/> | <b>VERIFY</b>  | The warning lights and LED message: <b>Stop Call MCR for Access X-7400 Stop</b> on both sides of the          |                |

		gate are	ON
<input type="checkbox"/>	VERIFY	Attempt to open gate 2GI1 from 2Z1 with the #15 RC CA key and Simultaneous Release	FAIL
<input type="checkbox"/>	VERIFY	Attempt to open gate 2GI1 with Blue Card	FAIL
	PLACE	PEER 11 in Restricted Access (Mode 8)	
<input type="checkbox"/>	VERIFY	PEER 11 is in Restricted Access	MODE 8
<input type="checkbox"/>	VERIFY	The 2Z1 gate box Restricted Access light is	ON
<input type="checkbox"/>	VERIFY	The LED message: Access Permitted is	ON
<input type="checkbox"/>	VERIFY	Attempt to open gate 2GI1 from 2Z1 side with S key is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open Gate 2GI1 with #15 RC CA key is	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open 2GI1 with Blue card	SUCCESSFUL
<input type="checkbox"/>	VERIFY	Attempt to open 2GI1 with Expt. _____ card	FAIL
<input type="checkbox"/>	VERIFY	During attempt with Expt. Card Reader light is	RED
	PLACE	PEER 11 in Safe Access (Mode 2)	
<input type="checkbox"/>	VERIFY	PEER 11 is in Safe Access	MODE 2
<input type="checkbox"/>	VERIFY	The 2Z1 gate box Controlled Access light is	ON
<input type="checkbox"/>	VERIFY	The warning lights and LED message: Stop Call MCR for Access X-7400 Stop on both sides of the gate are	ON
<input type="checkbox"/>	VERIFY	Attempt to open gate 2GI1 with Simultaneous Release and S Key	FAIL
<input type="checkbox"/>	VERIFY	Attempt to open gate 2GI1 with Simultaneous Release and # 15 Key is	SUCCESSFUL
	CLOSE	Gate 2GI1	
<input type="checkbox"/>	CHECK	for test acceptance of INNER GATE at 1GI1	

#### 1.11 Test OUTER GATE at 2GI1:

	PLACE	PEER 11 in Controlled Access (MODE 16)	
<input type="checkbox"/>	VERIFY	PEER 11 is in Controlled Access	MODE 16
<input type="checkbox"/>	VERIFY	The warning lights on both sides of the gate indicate: Call MCR for Crossover Amber	ON
	OPEN	The gate	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	OPEN
	SECURE	The Electric Strike micro switch	MADE
	HOLD	Both of the gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div A micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div A	OPEN
	HOLD	Both of the gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	Div B micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface indicates Div B	OPEN
	HOLD	Both of the gate micro switches	MADE
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	CLOSED
	RELEASE	The Electric Strike micro switch	
<input type="checkbox"/>	VERIFY	Operator Interface sees the gate is	OPEN
<input type="checkbox"/>	CHECK	for test acceptance of OUTER GATE at 2GI1	

#### 1.12 Test of ENTRY GATE at 2GE2

<input type="checkbox"/>	<b>VERIFY</b>	<b>INNER</b> Gate at 2GE2 has been inspected	
	<b>PLACE</b>	<b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Controlled Access</b> light is	<b>ON</b>
	<b>OPEN</b>	Gate 2GE2 with <b>Simultaneous Release</b> and #14 CA Key	
<input type="checkbox"/>	<b>VERIFY</b>	Simultaneous Release <b>Buzzer</b>	<b>SOUNDS</b>
<input type="checkbox"/>	<b>VERIFY</b>	Gate 2GE2 is	<b>OPEN</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
	<b>SECURE</b>	The Electric Strike micro switch	<b>MADE</b>
	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div A micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div A</b>	<b>OPEN</b>
	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	Div B micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface indicates <b>Div B</b>	<b>OPEN</b>
	<b>HOLD</b>	Both of the gate micro switches	<b>MADE</b>
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>RELEASE</b>	The Electric Strike micro switch	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>OPEN</b>
	<b>CLOSE</b>	The gate	
<input type="checkbox"/>	<b>VERIFY</b>	Operator Interface sees the gate is	<b>CLOSED</b>
	<b>PLACE</b>	<b>PEER 11</b> in <b>Controlled Access (MODE 17)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Controlled Access</b>	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Controlled Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Attempt to open</b> gate 2GE2 from gate box with the S key and <b>Simultaneous Release</b>	<b>FAIL</b>
	<b>OPEN</b>	Gate 2GE2 with the #14 RC CA key and <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gate 2GE2 is	<b>OPEN</b>
	<b>CLOSE</b>	Gate 2GE2	
	<b>PLACE</b>	<b>PEER 11</b> in <b>Restricted Access (Mode 8)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Restricted Access</b>	<b>MODE 8</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>OFF</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Restricted Access</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>open</b> gate 2GE2 with S key is	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to <b>open</b> Gate 2GE2 with #14 RC CA key is	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open 2GE2 with <b>Blue card</b>	<b>SUCCESSFUL</b>
<input type="checkbox"/>	<b>VERIFY</b>	Attempt to open 2GE2 with <b>Expt. _____ card</b>	<b>FAIL</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>During</b> attempt with <b>Expt. Card Reader light</b> is	<b>Red</b>
	<b>PLACE</b>	<b>PEER 11</b> in <b>Safe Access (Mode 2)</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>PEER 11</b> is in <b>Safe Access</b>	<b>MODE 2</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Interior</b> gate box <b>Call MCR for exit</b> light is	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The <b>Exterior</b> gate box <b>Controlled Access</b> light is	<b>ON</b>

- |                          |               |   |                   |
|--------------------------|---------------|---|-------------------|
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Attempt to open gate 2GE2 with Simultaneous Release and S key</b>      | <b>FAIL</b>       |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Attempt to open gate 2GE2 with Simultaneous Release and #14 CA Key</b> | <b>SUCCESSFUL</b> |
|                          | <b>CLOSE</b>  | <b>Gate 2GE2</b>  |                   |
| <input type="checkbox"/> | <b>CHECK</b>  | for test acceptance of <b>ENTRY GATE</b> at <b>2GE2</b>                   |                   |

### 1.13 Test of Spectrometer Tunnel GATE at 2MD3

- |                          |                |   |                |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | <b>VERIFY</b>  | Gate has been inspected   |                |
|                          | <b>PLACE</b>   | <b>PEER 11 in Controlled Access (MODE 16)</b>                         |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11 is in Controlled Access</b>                                | <b>MODE 16</b> |
|                          | <b>OPEN</b>    | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is                                   | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both gate micro switches  | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is                                   | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div A micro switch  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div A</b>                             | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both gate micro switches  | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is                                   | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div B micro switch  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div B</b>                             | <b>OPEN</b>    |
|                          | <b>CLOSE</b>   | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is                                   | <b>CLOSED</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | The gate box Gate Reset light is                                      | <b>OFF</b>     |
|                          | <b>RESET</b>   | The gate with <b>#15 RC Sweep</b> key                                 |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is                                   | <b>RESET</b>   |
| <input type="checkbox"/> | <b>VERIFY</b>  | The gate box Gate Reset light is                                      | <b>ON</b>      |
|                          | <b>OPEN</b>    | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is                                   | <b>CLOSED</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | The gate box Gate Reset light is                                      | <b>OFF</b>     |
|                          | <b>CLOSE</b>   | The gate  |                |
| <input type="checkbox"/> | <b>CHECK</b>   | for test acceptance of <b>Spectrometer Tunnel GATE</b> at <b>2MD3</b> |                |

### 1.14 Test ESCAPE DOOR at 2EL1:

- |                          |                |   |                |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | <b>VERIFY</b>  | Door has been inspected                       |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | The door cannot be opened from the            | <b>OUTSIDE</b> |
|                          | <b>PLACE</b>   | <b>PEER 11 in Controlled Access (MODE 16)</b> |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11 is in Controlled Access</b>        | <b>MODE 16</b> |
|                          | <b>OPEN</b>    | The door                                      |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is           | <b>OPEN</b>    |
|                          | <b>SECURE</b>  | The Security Bar micro switch                 | <b>MADE</b>    |
|                          | <b>HOLD</b>    | Both of the door micro switches               | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is           | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div A door micro switch                       |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div A</b>     | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the door micro switches               | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the gate is           | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div B door micro switch                       |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div B</b>     | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the door micro switches               | <b>MADE</b>    |

- |                          |                |   |               |
|--------------------------|----------------|---|---------------|
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                           | <b>CLOSED</b> |
|                          | <b>RELEASE</b> | The Security Bar micro switch                                 |               |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                           | <b>OPEN</b>   |
|                          |                | The door and latch the Security Bar                           |               |
|                          | <b>CLOSE</b>   |   |               |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2EL1</b> Door Reset light is                           | <b>OFF</b>    |
|                          | <b>RESET</b>   | The Door with <b>#15 RC Sweep</b> key at <b>2EL1</b> gate box |               |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the <b>2EL1</b> door is               | <b>RESET</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2EL1</b> Door Reset light is                           | <b>ON</b>     |
|                          | <b>OPEN</b>    | The door  |               |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                           | <b>OPEN</b>   |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2EL1</b> gate box Gate Reset light is                  | <b>OFF</b>    |
|                          | <b>CLOSE</b>   | The door  |               |
- ☐ **CHECK** for test acceptance of **Escape Door** at **2EL1**

#### 1.15 Test of EXIT DOOR 2ED1

- |                          |                |   |                |
|--------------------------|----------------|---|----------------|
| <input type="checkbox"/> | <b>VERIFY</b>  | Door has been inspected   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | The door cannot be opened from the                                    | <b>OUTSIDE</b> |
|                          | <b>PLACE</b>   | <b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>                  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | <b>PEER 11</b> is in <b>Controlled Access</b>                         | <b>MODE 16</b> |
| <input type="checkbox"/> | <b>VERIFY</b>  | The warning light inside the door indicates: <b>Call MCR for exit</b> | <b>ON</b>      |
|                          | <b>OPEN</b>    | The door  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                                   | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the door micro switches                                       | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                                   | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div A door micro switch   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div A</b>                             | <b>OPEN</b>    |
|                          | <b>HOLD</b>    | Both of the door micro switches                                       | <b>MADE</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                                   | <b>CLOSED</b>  |
|                          | <b>RELEASE</b> | Div B door micro switch   |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface indicates <b>Div B</b>                             | <b>OPEN</b>    |
|                          | <b>CLOSE</b>   | The door  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                                   | <b>CLOSED</b>  |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2ED1</b> Door Reset light is                                   | <b>OFF</b>     |
|                          | <b>RESET</b>   | The Door with <b>#15 RC Sweep</b> key at <b>2ED1</b> gate box         |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the <b>2ED1</b> door is                       | <b>RESET</b>   |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2ED1</b> Door Reset light is                                   | <b>ON</b>      |
|                          | <b>OPEN</b>    | The door  |                |
| <input type="checkbox"/> | <b>VERIFY</b>  | Operator Interface sees the door is                                   | <b>OPEN</b>    |
| <input type="checkbox"/> | <b>VERIFY</b>  | The <b>2ED1</b> gate box Gate Reset light is                          | <b>OFF</b>     |
|                          | <b>CLOSE</b>   | The door  |                |

- ☐ **CHECK** for test acceptance of **Escape Door** at **2ED1**

#### 1.16 Test INNER GATE at 3GI1:

- |                          |               |   |                |
|--------------------------|---------------|---|----------------|
| <input type="checkbox"/> | <b>VERIFY</b> | Gate has been inspected   |                |
|                          | <b>PLACE</b>  | <b>PEER 9</b> in <b>Restricted Access (Mode 8)</b>  |                |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>PEER 9</b> is in <b>Restricted Access</b>  | <b>MODE 8</b>  |
|                          | <b>PLACE</b>  | <b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>                                      |                |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>PEER 11</b> is in <b>Controlled Access</b>   | <b>MODE 16</b> |
| <input type="checkbox"/> | <b>VERIFY</b> | The warning lights and LED message: <b>Access Permitted</b> on both sides of the gate are | <b>ON</b>      |
|                          | <b>OPEN</b>   | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b> | Operator Interface sees the gate is   | <b>OPEN</b>    |
|                          | <b>CLOSE</b>  | The gate  |                |
| <input type="checkbox"/> | <b>VERIFY</b> | Operator Interface sees the gate is   | <b>CLOSED</b>  |
- ☐ **CHECK** for test acceptance of **INNER GATE** at **3GI1**

#### 1.17 Test OUTER GATE at 3GI1:

- |                          |               |  |                |
|--------------------------|---------------|--|----------------|
|                          | <b>PLACE</b>  | <b>PEER 11</b> in <b>Controlled Access (MODE 16)</b>                             |                |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>PEER 11</b> is in <b>Controlled Access</b>                                    | <b>MODE 16</b> |
| <input type="checkbox"/> | <b>VERIFY</b> | The warning light on 3Z1 side of the indicates: <b>Call MCR for crossover</b> is | <b>OFF</b>     |
|                          | <b>OPEN</b>   | The gate   |                |
| <input type="checkbox"/> | <b>VERIFY</b> | Operator Interface sees the gate is  | <b>OPEN</b>    |
|                          | <b>CLOSE</b>  | The gate   |                |
| <input type="checkbox"/> | <b>VERIFY</b> | Operator Interface sees the gate is  | <b>CLOSED</b>  |
- ☐ **CHECK** for test acceptance of **OUTER GATE** at **3GI1**

#### 1.18 Test of Iris Scanner and Local Keytree located in BRAHMS Expt Trailer (BET) with entry at Gates 2GE1 and 2GE2

- |                          |               |  |                     |
|--------------------------|---------------|--|---------------------|
|                          | <b>PLACE</b>  | <b>PEER 11</b> in <b>CA, Mode 16</b>   |                     |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>PEER 11</b> is in <b>CA</b>   | <b>MODE 16</b>      |
|                          | <b>SCAN</b>   | <b>Valid Personnel with Iris Scanner in BRAHMS Expt Trailer (BET)</b>  |                     |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Valid Personnel</b> is  | <b>RECOGNIZED</b>   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>First BRAHMS key in Local keytree at BET</b>  | <b>RELEASED</b>     |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Attempt to enter 2GE1 with BRAHMS key and SR</b> is   | <b>SUCCESSFUL</b>   |
|                          | <b>SCAN</b>   | <b>Valid Personnel with Iris Scanner at BET</b>  |                     |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Valid Personnel</b> is  | <b>RECOGNIZED</b>   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Attempt to release third BRAHMS key in Local keytree at BET</b> is  | <b>UNSUCCESSFUL</b> |
|                          | <b>SCAN</b>   | <b>Valid Personnel with Iris Scanner at BET</b>  |                     |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Valid Personnel</b> is  | <b>RECOGNIZED</b>   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Attempt to release second BRAHMS key in Local keytree at BET</b>  | <b>SUCCESSFUL</b>   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Attempt to enter 2GE1 with second BRAHMS key and SR</b> is  | <b>SUCCESSFUL</b>   |
| <input type="checkbox"/> | <b>VERIFY</b> | <b>Attempts to enter 2GE2 with First <input type="checkbox"/> and Second <input type="checkbox"/> BRAHMS keys and SR</b> are | <b>SUCCESSFUL</b>   |

- |                          |                         |  |                   |
|--------------------------|-------------------------|--|-------------------|
|                          | <b>REPLACE</b>          | <b>First and second BRAHMS keys in local keytree at BET</b>  |                   |
| <input type="checkbox"/> | <b>VERIFY</b>           | First <b>BRAHMS</b> key <input type="checkbox"/> and Second <b>BRAHMS</b> key <input type="checkbox"/> | <b>REPLACED</b>   |
| <input type="checkbox"/> | <b>PLACE<br/>VERIFY</b> | <b>PEER 11 in Controlled Access (XA), Mode 17<br/>PEER 11 is in XA</b>                                 | <b>MODE 17</b>    |
| <input type="checkbox"/> | <b>SCAN<br/>VERIFY</b>  | <b>Valid Personnel with Iris Scanner at BET<br/>Valid Personnel is</b>                                 | <b>RECOGNIZED</b> |
| <input type="checkbox"/> | <b>VERIFY</b>           | <b>First BRAHMS key in Local keytree BET remains</b>   | <b>CAPTURED</b>   |
| <input type="checkbox"/> | <b>PLACE<br/>VERIFY</b> | <b>PEER 11 in Restricted Access (Mode 8)<br/>PEER 11 is in Restricted Access</b>                       | <b>MODE 8</b>     |
- ☐ **CHECK** for test acceptance of **Test of Iris Scanner and Local Keytree located in BRAHMS Expt Trailer (BET) with entry at Gates 2GE1and 2GE2**

**END OF TEST PROCEDURE**

**TTL: Sign for completion of initial testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**TTL: Sign for completion of final testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_